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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/600,117		06/20/2003	John Stanley Lovell	2060-92	9132
22442	7590	05/17/2006		EXAMINER	
SHERIDAN		PC	WOOD, ELIZABETH D		
1560 BROADWAY SUITE 1200				ART UNIT	PAPER NUMBER
DENVER, CO 80202			1755		
				DATE MAILED: 05/17/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/600,117	LOVELL ET AL.
Office Action Summary	Examiner	Art Unit
	Elizabeth D. Wood	1755
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	. the mailing date of this communication. (35 U.S.C. § 133).
Status		
3) Since this application is in condition for allowar	action is non-final. ace except for formal matters, pro	
closed in accordance with the practice under E	х рапе Quayle, 1935 С.D. 11, 45	03 U.G. 213.
Disposition of Claims		
 4) Claim(s) 1-50 is/are pending in the application. 4a) Of the above claim(s) 5,14-25 and 39-50 is/ 5) Claim(s) is/are allowed. 6) Claim(s) 1-4, 7-13, 26-28 and 30-38 is/are rejection. 7) Claim(s) 6 and 29 is/are objected to. 8) Claim(s) are subject to restriction and/or 	cted.	n.
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order access and the correction is objected to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

Specification

The examiner has not checked the specification to the extent necessary to determine the presence of **all** possible minor errors (grammatical, typographical and idiomatic). Cooperation of the applicant(s) is requested in correcting any errors of which applicant(s) may become aware of in the specification, in the claims and in any future amendment(s) that applicant(s) may file.

Applicant(s) is also requested to complete the status of any copending applications referred to in the specification by their Attorney Docket Number or Application Serial Number, **if any**.

The status of the parent application(s) and/or any other application(s) cross-referenced to this application, if **any**, should be updated in a timely manner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11 and 30 remain rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims remain rejected to the reasons of record. The section of the MPEP in the previous office action does discuss Markush language, contrary to applicant's assertions. It specifically states that in Markush groups "consisting of" may not be replaced by "comprising". This is because such a change would open the group up to

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other components. Accordingly, since "consisting essentially of" is also open langage, it stands to reason that this terminology would also be improper. The case law cited by applicant stating that "consisting essentially of" is an acceptable expression of a Markush group does not appear relevant.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7-13 and 26-28 and 30-37 remain rejected under 35 U.S.C. 102(b) as being anticipated by Shin et al. with Shih et al. to teach an inherent state of fact, for the reasons set forth in the previous office action.

Claims 1-4, 7-13, 26-28, 30-35, 37 and 38 remain rejected under 35 U.S.C. 102(b) as being anticipated by Kametaka et al. with Shih et al. to teach an inherent state of fact, for the reasons set forth in the previous office action.

Claims 1-4, 7-13 and 26-28 and 30-37 remain rejected under 35 U.S.C. 102(b) as being anticipated by JP 59-216631 for the reasons set forth in the previous office action.

Response to Arguments

Applicant's arguments filed February 27, 2006 with respect to the prior art rejections have been fully considered but they are not persuasive.

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The arguments focus on the contention that the examiner ignored the "preferred" method of making the claimed composition and contend that such method would result in a different composition. The declaration accompanying the remarks also presents such arguments. This is not convincing because the instant specification still states that "any suitable technique" that will result in ion exchange is acceptable. Furthermore, applicant argues that the references calcine their compositions and the instant compositions are not calcined. However, it is pointed out that the instantly claimed process does not preclude calcinations steps, and the product cliams as presented also do not refer to an uncalcined material. Accordingly, the cliams are not commensurate in scope with the arguments being presented. Applicant further comments that the references do not teach vermiculite. However, it is pointed out that the claims are not all limited to vermiculite and therefore are properly rejectable over the substrates of the references.

The dependent claim limitations were considered by the examiner in the previous office action. As pointed out therein, however, absent a convincing showing that the methods for producing the compositions result in a distinctly different composition, the examiner considers such features inherent.

Allowable Subject Matter

Claims 6 and 29 are objected to as being dependent on a rejected base claim, but would be allowable if rewritten in independent form.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth D. Wood whose telephone number is 571-272-1377. The examiner can normally be reached on M-F, 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elizabeth D. Wood Primary Examiner Art Unit 1755

edw